

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

**PCT**NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

To: CCPIT PATENT AND TRADEMARK LAW OFFICE  8th Floor  2 Fuchengmenwai Street  Beijing 100037  Cai, Shengyou
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Date of mailing (day/month/year)	06 Nov 2003 (06.11.03)
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Applicant's or agent's file reference IEC020035PCT		<b>IMPORTANT NOTIFICATION</b>	
International application No. PCT/CN02/00486	International filing date (day/month/year) 09 July 2002 (09. 07. 02)	Priority date (day/month/year) 09 July 2001 (09. 07. 01)	
Applicant  Li, Langen			

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/CN 6 Kitucheng Rd., Jinmen Bridge, Haidian District, 100088 Beijing, China  Facsimile No. 86-10-62019451	Authorized officer  Fu, Mingxing  Telephone No. 86-10-620 84751
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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IEC020035PCT	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/CN02/00486	International filing date ( <i>day/month/year</i> ) 09 July 2002 (09. 07. 02)	Priority date ( <i>day/month/year</i> ) 09 July 2001 (09. 07. 01)
International Patent Classification (IPC) or national classification and IPC  IPC <sup>7</sup> C23C8/20, C23C8/24, C23C8/30		
Applicant  Li, Langen		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets.
3.	This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 23. Jan. 2003 (23. 01. 03)	Date of completion of this report 24. Oct. 2003 (24. 10. 03)
Name and mailing address of the IPEA/ CN  6 Kitucheng Rd., Jinnan Bridge, Haidian District, 100088 Beijing, China  Facsimile No. 86-10-62019451	Authorized officer  Fu, Mingxing  Telephone No. 86-10-620 84751

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. \_\_\_\_\_  
PCT/CN02/00486

## I. Basis of the report

### 1. With regard to the elements of the international application: \*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig. \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/CN02/00486

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-12	YES
	Claims		NO
Inventive step (IS)	Claims	1-12	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

### 2. Citations and explanations (Rule 70.7)

The report involve in the texts as following

D1: CN1191885A

D2: CN1067258A

D3: CN1036232A

D4: EP0947599A

D5: RU2048599C

D6: RU2038412C

Comparing with existing technology in this area, this technology program in the claims for protection possess novelty and inventive step. The invention involves in a kind of cocatalyst of atmosphere heat treatment, the method of using cocatalyst and the method of atmosphere heat treatment of metal material. The characteristic consist in when cocatalyst is in the equipment of heat treatment or gas-producing facility, it exist in the form of gas phase or finer dispersion (such as dust), and can be diffused in atmosphere material or atmosphere. Using the cocatalyst, dissolve and disperse it into atmosphere material and/or atmosphere. The claims explain the cocatalyst and its usage. The atmosphere cocatalyst have not been discovered in the existing technology. Therefore, the claims 1-12 meet the prescription of novelty in PCT(33.2) and inventive step in PCT(33.3).

In addition, the claims 1-12 can be applied to industrial production, have applicability, meet the PCT(33.4).

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